North Indian Oniticellus imbellis, Bates, and was named by Reiche O. fuscopunctatus, F.; but by the kindness of Dr. Adam Bóving, of Copenhagen, who has made for me an excellent drawing of the Fabrician type specimen, I am able to state that that is a species of Onthophagus, very much smaller and entirely unlike the insect here described. Reiche is responsible also for the manuscript name "modestus, Dej.," which I have adopted.

Oniticellus modestus is closely related to the African O. spinipes, Roth, for which Mr. Péringuey has formed a new genus Tiniocellus, which he has widely separated from Oniticellus by reason of his counting only eight joints in the antenna. This is an error, for there are nine joints, and these species cannot be separated from O. cinctus, F., planatus,

Lap., formosus, Chev., &c.

I may take this opportunity of noting that Mr. Péringuey has incorrectly given the last-named species as a synonym of the S.-African O. pictus, Hausm. O. formosus, Chev., is a West-African insect, larger than O. pictus and differing in the form of the clypeus and other respects.

XXIX.—On the Generic Names of the Rupicaprine Ruminants known as Serows and Gorals. By R. I. Россск, Superintendent of the Zoological Society's Gardens.

The rupicaprine ruminants commonly known as Serows and Gorals were first dismembered from the genus Antilope by Hamilton Smith in 1827 (Griffith's An. Kingdom, v. p. 352). This author grouped under the subgenus Namorhedus* the three species sumatrensis, Shaw, duvaucelii, H. Sm., and goral, Hardw. One of these must be the type of Namorhedus.

In 1834 Hodgson (P. Z. S. 1834, p. 85) adopted Namorhedus for the same species, with the addition of the Nepalese form described by himself as thar. Although clearly recognizing that the four species ought to be affiliated in pairs, N. goral and N. duvaucelii forming a group apart from N. sumatrensis and N. thar, Hodgson himself did not divide Namorhedus into two genera or subgenera, nor select one of the species as its type.

The next writer to deal systematically with the question, namely Ogilby (P. Z. S. 1836, p. 138), pointed out that

^{*} I preserve the original spelling of the name throughout this paper, and ignore the emendations that have been proposed.

goral and thar are generically distinct. For the former he introduced the genus Kemas, for the latter Capricornis, entirely setting Namorhedus aside. Now Kemas, or, rather, Cemas, had been previously used by Oken (Lehrb. Zool. ii. p. 727, 1816) for a series of antelopes of which goral was not one. Hence, if it be maintained that Kemas and Cemas are, strictly speaking, the same names, goral cannot be the type of Kemas. If, on the other hand, the difference in the formation of the initial letters "K" and "C" be regarded as a sufficient reason for considering the names different, goral might be the type of Kemas, and some other antelope, say gnu, according to Messrs. Sclater and Thomas's selection ('Book of Antelopes,' i. pt. ii. p. 93, 1895), the type of Cemas *. Since Ogilby quotes no authorities for any of the genera cited in his paper, it is impossible to say whether he was aware of Oken's use and spelling of the name or not. Ogilby, indeed, left the matter in a most perplexing and unsatisfactory state, on account of his disregard of the claims of Næmorhedus, which, by the law of priority, must supersede either Kemas or Capricornis. This appears to me to be clearly a case where the decision of the next reviser, if lawfully made, should be adhered to. This was Gray. When he published his 'List of Mammals in the British Museum' in 1843 t, the generic nomenclature of the group stood as follows :-

Namorhedus, containing sumatrensis, duvaucelii, goral.

Kemas, ,, goral.

Capricornis, ,, thar (=bubalina).

Now Gray followed Ogilby in admitting the two general defined by that author as Kemas and Capricornis. He reserved Capricornis for thar (=bubalina) and adopted Næmorhedus for goral and sumatrensis. His association of these two species was apparently due to his being acquainted only with the horns of sumatrensis. This mistake, however, in nowise affects the fact that he dropped Kemas, Ogilby, as a synonym of Næmorhedus and did not drop Capricornis. His reason for this was quite obvious and natural and wise, namely, that Kemas was, in his opinion, preoccupied as Cemas, Oken (see p. xxvi of the introduction to the List

* This selection can, I imagine, only hold good if the type of Cemas

had not been previously fixed by elimination.

[†] In 1841 (Journ. As. Soc. Bengal, p. 913) Hodgson referred *goral* and *thar* to "Nemorhedus vel Kemas." But since he thus merely reverts to his original view as to the two species being congeneric, his paper does not affect the question at issue.

Mamm. in B. M.). But, whatever the reason for his action may have been, I do not see how his decision, since the choice rested with him, can possibly be set on one side. In his subsequent works (Ann. & Mag. Nat. Hist. xiii. p. 232, 1846; List Ost. Spec. in B. M. 1847, p. 57; P. Z. S. 1850, pp. 135-136; and Cat. Mamm. Ung. iii. pp. 110-114, 1852) he confirmed his verdict and brought his system into conformity with modern views. He correctly withdrew sumatrensis from Namorhedus, ranged it with thar (=bubalina) under Capricornis, and left goral with duvaucelii as its synonym as the sole representative of Namorhedus.

It was subsequently stated by Jerdon ('Mammals of India,' 1867, p. 283), and, following him, by W. L. Sclater (Cat. Mamm. Ind. Mus. p. 147, 1891), that sumatrensis is the type of Namorhedus. I can find no evidence for, much less proof of, the truth of this statement. If true it would invalidate Gray's nomenclature. Since it appears to be unfounded, I see no escape from the adoption of that author's

settlement of the question.

Of authors who succeeded Gray, some—like Horsfield (P. Z. S. 1856, p. 403), Adams (P. Z. S. 1858, pp. 522-523), and Blyth (Cat. Mamm. As. Soc. p. 174, 1863, and Burma List, p. 46, 1875)—followed his nomenclature; others—like Turner (P. Z. S. 1850, p. 173), Jerdon, M.-Edwards (Rech. Mamm. 1868-1874), and W. L. Sclater—reverted to the original view of H. Smith and Hodgson that the Gorals and Scrows are congeneric and to be entitled Namorhedus.

In 1891, however, Dr. Blanford (Mamm. Brit. India, pp. 513 & 516) pointed out that Ogilby was right in separating the two, and, agreeing apparently with Jerdon that sumatrensis was the type of Næmorhedus, he adopted the inadmissible name Cemas for the Gorals and Næmorhedus for the Serows, entirely ignoring Gray's previous settlement of the question. Without further inquiry into the matter, Tronessart adopted Blanford's view (Cat. Mamm. i. p. 964, 1898), merely compromising the question by classifying the species under Næmorhedus with Kemas and Næmorhedus (s. s.) as subgenera.

In 1900 Mr. Lydekker ('Great and Small Game of India,' p. 136) complicated the subject still further by following Blanford, but with the substitution of Urotragus for Cemas, on the grounds of the inadmissibility of Cemas or Kemas for the Gorals. This system of nomenclature was adopted by Trouessart in 1905 (Cat. Mamm., Suppl. p. 734), and it reappears in the second edition of Mr. Lydekker's abovequoted work published in 1907. Urotragus, it should be

explained, was a generic name proposed by Gray in 1871 for the long-tailed Chinese Goral described as *Antilope caudata* by A. Milne-Edwards. This species, however, is not usually admitted to be generically distinct from the Himalayan form.

Although it has been suggested to me that *Kemas* of Ogilby should be regarded as a different name from *Cemas* of Oken because of the optical and, to those who pronounce the initial "C" as a sibilant, phonetic differences between "C" and "K," I nevertheless agree with Gray, and, following him, with Mr. Lydekker and M. Trouessart, that "C" and "K" in this and analogous cases must be looked upon as identical letters.

But, whatever the ultimate verdict on this point may be, Kemas cannot, in my opinion, be reserved for the Gorals, because of Gray's decision to call these animals Næmorhedus. And this action on the part of Gray similarly disposes of the claims of Urotragus to generic recognition so long as caudatus, the type of Urotragus, is regarded, as I think it should be, as congeneric with goral, the type of Næmorhedus.

In 1894 Heude (Hist. Nat. Chinois, ii. pp. 222 & 234) followed Ogilby's nomenclature, adopting Capricornis and Kemas, which he characterized; but in 1898 (op. cit. iv.

pp. 13-14) he broke up Capricornis as follows:-

 Capricornis for thar, chrysochætes, fargesianus, longicornis, brachyrhinus, nasutus.

2. Nemotragus, nov., for erythropygius, platyrhinus, cornu-

tus, ungulosus, microdonticus, argyrochætes.

3. Lithotragus, nov., for maritimus, rocherianus, benetianus, marcolinus, berthelianus.

4. Capricornulus, nov., for crispus, pryerianus, saxicola.

5. Austritragus, nov., for sumatrensis.

It is quite beyond my purpose, if it was within my power, to deal with these so-called species *; and the adoption by

^{*} With the exception of thar, crispus, and sumatrensis, the names enumerated above were applied by Heude to what he believed to be new species inhabiting China and Japan. With regard to the Chinese forms, I find it impossible to believe that they should rank as "species" in the ordinarily accepted sense of the word. Probably a subspecific value should be assigned to some of them, possibly a higher value to a few. Many of the features, again, upon which the "species" rest may be attributable to differences of age or of sex or of season, or to individual variation irrespective of such conditions. It is impossible to say, the provokingly involved and verhose nature of the text making the attempt to clear up the questions raised one upon which few will attempt to embark without localized material. Nevertheless, it must be admitted that the papers of Heude have a certain value and interest, inasmuch as the observations they record substantiate

Heude of Ogilby's generic names does not affect the question as to what is the type of *Næmorhedus*, except in so far as his use of the name *Capricornis* may silence those who might otherwise maintain that this name should be dropped on the grounds of its failure to receive recognition at the hands of modern writers.

The following is a list of the generic names that have been proposed for the Serows and Gorals. Since it is desirable that every generic name, whether admitted at the present time or not, should be definitely assigned to a particular species as its type, I have, without prejudice, selected a type for each of those proposed by Heude. Only one of these, however, namely Capricornulus, has, in my opinion, any claim to recognition, Lithotragus, Nemotragus, and Austritragus being complete synonyms of Capricornis. Capricornulus may, perhaps, be admitted on the grounds that the lacrymal bone forms a very short union with the nasal in the typical species crispus, which in this particular approaches Næmorhedus and differs from Capricornis.

Næmorhedus, H. Smith, 1827. Type by Gray's revision of 1843 and 1846 goral, Hardwicke.

Capricornis, Ogilby, 1836. Type ab initio thar, Hodgson *.

Kemas, Ogilby, 1836. Type ab initio goral, Hardwicke.

Urotragus, Gray, 1871. Type ab initio caudatus, M.-Edwards.

Austritragus, Hende, 1898. Type ab initio sumatraensis, Bechstein †.

Capricornulus, Heude, 1898. Type by selection crispus, Temm.

the fact that considerable variation in the colour of the pelage, the structure of the skull, and the size and shape of the horns exists in specimens of Capricornis and Nemorhedus occurring in the Chinese area. And however much one may secretly sympathize with the omission of the generic and specific names Heude proposed from Zoological Records, the morality of this proceeding is open to question, at all events, on the grounds that the record of such names, once published, must be preserved if only to prevent their subsequent use in a different sense by authors ignorant of their preoccupation.

'Gleanings,' iii. p. 324 (Oct. 1831). In 1832 (P. Z. S. p. 12) Hodgson

Gleanings, iii. p. 324 (Oct. 1831). In 1832 (P. Z. S. p. 12) Hodgson substituted bubalina for thar, and of late years the species has been, after Blanford's example, erroneously cited as bubalinus.

^{† &#}x27;Uebersicht vierfüss. Thiere,'i. p. 98 (1799). Up to the present time this species has been always cited as sumatrensis, Shaw, 1801.

Lithotragus, Heude, 1898. Type by selection maritimus, Heude.

Nemotragus, Heude, 1898. Type by selection argyrochætes, Heude.

Allowing Capricornulus to stand, at all events provisionally, the above-mentioned genera may be reduced to the following three:—

- 1. Capricornis, Ogilby (=Lithotragus, Heude + Nemotragus, Heude + Austritragus, Heude).
- 2. Capricornulus, Heude.
- 3. Namorhedus, H. Smith (= Kemas, Ogilby + Urotragus, Gray).

NOTE.—When revising the names of the Serows and Gorals I came across a hitherto unnoticed synonym of the Nilgiri wild goat (Hemitragus hylocrius). The reference is as follows:—"Capra Neilgherri, H. A. Leveson, Sport in many Lands, p. 238, pl. iv. fig.,? 1876." My copy of this volume bears no date; but since it belonged apparently to the first edition, and contains a memoir of the author ("The Old Shekarry"), who died in 1875, the date of the name in question may be placed as probably not earlier than 1876.

XXX.—On Muscardinidæ from the Iberian Peninsula. By Angel Cabrera.

Spanish and Portuguese dormice are, for the most part, badly worked, no two authors agreeing as to the number and geographical distribution of species. Of Eliomys especially several apparently different forms have been described, partly by myself, the validity of which requires to be discussed. Since the publication of my paper on Spanish Eliomys * my opinion on this subject has been somewhat modified, as a result of the examination of much new material, including a fine series mainly collected by Mr. Gerrit S. Miller, to whose kindness I owe the opportunity of examining it.

In the present paper I give a summary of my conclusions on the whole family, as represented in the Iberian Peninsula.

^{*} Bol. Real Soc. Españ. de Hist. Nat. 1904, p. 180.